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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/821,952	04/12/2004	Philip James Ions	T2211-9059US01 2378 EXAMINER	
181	7590 03/15/2005			
MILES & STOCKBRIDGE PC			KASTLER, SCOTT R	
1751 PINNA SUITE 500	CLE DRIVE		ART UNIT	PAPER NUMBER
MCLEAN, VA 22102-3833			1742	

DATE MAILED: 03/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	_
	10/821,952	IONS ET AL.	
Office Action Summary	Examiner	Art Unit	
•	Scott Kastler	1742	
The MAILING DATE of this communication ap			_
Period for Reply		•	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may a reply be tin by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from by cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on			
	 s action is non-final.		
3) Since this application is in condition for allowa closed in accordance with the practice under <i>t</i>			
Disposition of Claims			
4) ⊠ Claim(s) 1-29 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-29 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.		
Application Papers			
9) The specification is objected to by the Examine	er.		
10)⊠ The drawing(s) filed on 12 August 2004 is/are:	a)⊠ accepted or b)□ objected	to by the Examiner.	
Applicant may not request that any objection to the	• • • • • • • • • • • • • • • • • • • •	· ·	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. § 119			
12) ☒ Acknowledgment is made of a claim for foreign a) ☒ All b) ☐ Some * c) ☐ None of: 1. ☒ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☐ Copies of the certified copies of the priority application from the International Burear * See the attached detailed Office action for a list	es have been received. Es have been received in Application rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)			
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	(PTO-413)	
Notice of Draftsperson's Patent Drawing Review (P10-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)	1

Part of Paper No./Mail Date 20050310

Art Unit: 1742

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Burrow. Burrow teaches a direct smelting plant with water cooled walls (14) including, components a-i of instant claim 1 recited in claim 1 of Burrow, the solids feed means of instant claims 2-10 disclosed at (27) of the drawings, and claims 11-13 of Burrow for example, the crane means of instant claims 18 and 19 disclosed at col. 5 lines 30-50 for example, and the tapping means of claims 20-25 disclosed at claims 6 and 14-17 of Burrow for example, thereby showing all aspects of the above claims except the use or specific placement of platforms or doors for allowing the plant to be accessible by operators, although Burrow does state, at col. 1 lines 63-65 for example that necessary access and handling facilities should be provided for operation of the plant, and also, at col. 5 lines 43-50 for example, that access doors for access to the interior of the vessel should be provided, although Burrow does not state where these platforms (access facilities) and doors should be placed in the plant. However, because the smelting plant of Burrow is arranged and operated in substantially the same manner as that of the instant claims, and would therefore require operators at substantially the same locations as in the instant claims, motivation to place the platforms and doors suggested by Burrow in the locations recited by the instant claims as required for efficient operation of the plant of the type disclosed by Burrow, would have been a modification obvious to one of ordinary skill in the art at the time the invention was made.

Art Unit: 1742

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Related patent publication US 2004/0256773 A1 to Dry et al is also cited as an example of direct smelting plants.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott Kastler whose telephone number is (571) 272-1243. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on (571) 272-1244. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Scott Kastler Primary Examiner Art Unit 1742